

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 17, 2005, 15:19:48 ; Search time 0.001 Seconds

(without alignment)
258.063 Million cell updates/sec

Title: ua-10-036-342-57
Perfect score: 2623
Sequence: 1 MDPKLGMAASLAVLILL.....NYISGKLFAPFLEMAQLH 507

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 509 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database: aay76144.geneseqp2000s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2612.5	99.6	509	1 AAY76144	Human secreted pro

ALIGNMENTS

RESULT 1
AAY76144
ID AAY76144 standard; protein; 509 AA.

AC AAY76144;
DT 23-MAR-2000 (first entry)

DB Human secreted protein encoded by gene 21.

Human; secreted protein; cancer; tumour; developmental abnormality; foetal deficiency; blood disorder; immune system disorder; inflammation; autoimmune disease; allergy; Alzheimer's disease; cognitive disorder; schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder; atherosclerosis; diabetes; cardiovascular disorder; kidney disorder; digestive disorder; endocrine disorder; infection; AIDS; leukaemia; therapy; chromosome 18q22-23.

OS Homo sapiens.

PN W09958660-A1.

PD 18-NOV-1999.

PF 06-MAY-1999; 99WO-US009847.

PR 12-MAY-1998; 98US-0085093P.

PR 12-MAY-1998; 98US-0085094P.
PR 12-MAY-1998; 98US-0085105P.
PR 12-MAY-1998; 98US-0085180P.
PR 18-MAY-1998; 98US-0085906P.
PR 18-MAY-1998; 98US-0085920P.
PR 18-MAY-1998; 98US-0085921P.
PR 18-MAY-1998; 98US-0085922P.
PR 18-MAY-1998; 98US-0085923P.
PR 18-MAY-1998; 98US-0085924P.
PR 18-MAY-1998; 98US-0085925P.
PR 18-MAY-1998; 98US-0085927P.
PR 18-MAY-1998; 98US-0085928P.

(HUMA-) HUMAN GENOME SCI INC.

PI Ruben SM, Florence K, Ni J, Rosen CA, Carter KC, Moore PA;
PI Olsen HS, Shi Y, Young PE, Wei F, Brewer LA, Soppet DR, Lafleur DW;
PI Endress GA, Edner R;

DR WPI; 2000-062296/05.
DR N-PSDB; AA265270.

PT New isolated human genes and the secreted polypeptides they encode,
PT useful for diagnosis and treatment of e.g. cancer, neurological
PT disorders, immune diseases, inflammation or blood disorders.

Claim 11; Page 373-374; 475pp; English.

CC AA265250 to AA265350 represent 97 isolated human secreted protein genes.
CC AAY76124 to AAY76223 are the secreted proteins encoded by the 97 human
CC genes. The gene encoding this protein was found to be on chromosome 18q22
CC -23. The genes and their corresponding secreted polypeptides are useful
CC for preventing, treating or ameliorating medical conditions, e.g. by
CC protein or gene therapy. Also pathological conditions can be diagnosed by
CC determining the amount of the new polypeptides in a sample or by
CC determining the presence of mutations in the new genes. Specific uses are
CC described for each of the 97 genes, based on which tissues they are most
CC highly expressed in, and include developing products for the diagnosis or
CC treatment of cancer, tumours, developmental abnormalities and foetal
CC deficiencies, blood disorders, diseases of the immune system, autoimmune
CC diseases, inflammation, allergies, asthma, psoriasis, sepsis, skin disorders,
CC schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders,
CC atherosclerosis, diabetes, cardiovascular disorders, kidney disorders,
CC digestive/endocrine disorders, infections and AIDS. The polypeptides are
CC also useful for identifying their binding partners. The sequences shown
CC in AAY76224 to AAY76424 represent fragments of the secreted proteins

SQ Sequence 509 AA;

Query Match 99.6%; Score 2612.5; DB 1; Length 509;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 507; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 MDPKLGMAASLAVLILLERGMFSSPPALLLEKXVQYIDHODERVQTLKEMVAI 59
DB 1 MDPKLGMAASLAVLILLERGMFSSPPALLLEKXVQYIDHODERVQTLKEMVAI 60
QY 60 ESDSVQVPPFRFQELFRMAVAADTLQRLGARVASYDMKPPQGLPIPVILAEIG 119
DB 61 ESDSVQVPPFRFQELFRMAVAADTLQRLGARVASYDMKPPQGLPIPVILAEIG 120
QY 120 SDPTKGVCFYGHLDVQPADRGGLTDYVLTEDVGKLYRGATDNKGPVLAMINAVSA 179
DB 121 SDPTKGVCFYGHLDVQPADRGGLTDYVLTEDVGKLYRGATDNKGPVLAMINAVSA 180
QY 180 FRALQDLFVNIFILEGMEAGSVALLBELVEXKORFSSGVYIVISNLMISORXPAI 239
DB 181 FRALQDLFVNIFILEGMEAGSVALLBELVEXKORFSSGVYIVISNLMISORXPAI 240
QY 240 TYGTGRNSYFVNEVVKCRDQDFHSGTGGILHEPMADVALGSLVDSSGHILVPGIYDEV 299
DB 241 TYGTGRNSYFVNEVVKCRDQDFHSGTGGILHEPMADVALGSLVDSSGHILVPGIYDEV 300

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Qy	300	VPLTEBEINTYKAHLDLEERYNSSRVEKFLFDTKEEILMHLWRYPSLSIHGIGAFDEP	359
Db	301	VPLTEBEINTYKAHLDLEERYNSSRVEKFLFDTKEEILMHLWRYPSLSIHGIGAFDEP	360
Qy	360	GTCTVIFGRVIGKFSIRLVPHMNTSAVEKQVTRHLEDVFSKRNSSNKKVSMTLGLHPWI	419
Db	361	GTCTVIFGRVIGKFSIRLVPHMNTSAVEKQVTRHLEDVFSKRNSSNKKVSMTLGLHPWI	420
Qy	420	ANIDDTQYLAARAIKRVFEGTEPMIRDSSTPIAKMFOEIVHKSIVLIPLAGAVDDGHS	479
Db	421	ANIDDTQYLAARAIKRVFEGTEPMIRDSSTPIAKMFOEIVHKSIVLIPLAGAVDDGHS	480
Qy	480	ONEKINRMNYIEGTLFAAFLEMAQLH	507
Db	481	ONEKINRMNYIEGTLFAAFLEMAQLH	508

Search completed: February 17, 2005, 15:19:48
Job time : 0.001 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 15:19:48 ; Search time 0.001 Seconds
(without alignments)
258.063 Million cell updates/sec

Title: us-10-036-342-57

Perfect score: 2623
Sequence: 1 MDKLGKRMASLILAVLLLL.....NYLGTKLFAFLKMAQLH 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 segs, 509 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : aay76144.geneseg2000s.*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2612.5	99.6	509	1 AAY76144	Human secreted pro

ALIGNMENTS

RESULT 1
AAY76144
ID AAY76144 standard; protein: 509 AA.

XX AC AAY76144;

XX DT 23-MAR-2000 (first entry)

DE Human secreted protein encoded by gene 21.

XX KW Human; secreted protein; cancer; tumour; developmental abnormality;
XX KW foetal deficiency; blood disorder; immune system disorder; inflammation;
XX KW autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
XX KW schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder;
XX KW atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;
XX KW digestive disorder; endocrine disorder; infection; AIDS; leukaemia;
XX KW therapy; chromosome 10q22-23.

XX OS Homo sapiens.

XX PN WO958660-A1.

XX PD 18-NOV-1999.

XX PF 06-MAY-1999; 99WC-US009847.

XX PR 12-MAY-1998; 98US-0085093P.

PR 12-MAY-1998; 98US-0085094P.
PR 12-MAY-1998; 98US-0085105P.
PR 12-MAY-1998; 98US-0085180P.
PR 18-MAY-1998; 98US-0085906P.
PR 18-MAY-1998; 98US-0085920P.
PR 18-MAY-1998; 98US-0085921P.
PR 18-MAY-1998; 98US-0085922P.
PR 18-MAY-1998; 98US-0085923P.
PR 18-MAY-1998; 98US-0085924P.
PR 18-MAY-1998; 98US-0085925P.
PR 18-MAY-1998; 98US-0085926P.
PR 18-MAY-1998; 98US-0085928P.

XX (HUMA-) HUMAN GENOME SCI INC.

XX PI Ruben SM, Florence K, Ni J, Rosen CA, Carter KC, Moore PA;
PI Olsen HS, Shi Y, Young PE, Wei F, Brewer LA, Soppet DR, Lafleur DW;
PI Endress CA, Ebner R;

XX WP1; 2000-062296/05.
XX DR N-PSDB; AAZ65270.

PT New isolated human genes and the secreted polypeptides they encode,
PT useful for diagnosis and treatment of e.g. cancers, neurological
PT disorders, immune diseases, inflammation or blood disorders.

XX Claim 11; Page 373-374; 475pp; English.

XX AA65250 to AAZ65350 represent 97 isolated human secreted protein genes.
XX AAY76124 to AAY76223 are the secreted proteins encoded by the 97 human
XX genes. The gene encoding this protein was found to be on chromosome 10q22
XX 32. The genes and their corresponding secreted polypeptides are useful
XX for preventing, treating or ameliorating medical conditions, e.g. by
XX protein or gene therapy. Also pathological conditions can be diagnosed by
XX determining the amount of the new polypeptides in a sample or by
XX determining the presence of mutations in the new genes. Specific uses are
XX described for each of the 97 genes, based on which tissues they are most
XX highly expressed in, and include developing products for the diagnosis or
XX treatment of cancer, tumours, developmental abnormalities and foetal
XX deficiencies, blood disorders, diseases of the immune system, autoimmune
XX diseases, inflammation, allergies, Alzheimer's and cognitive disorders,
XX schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders,
XX atherosclerosis, diabetes, cardiovascular disorders, kidney disorders,
XX digestive/endocrine disorders, infections and AIDS. The polypeptides are
XX also useful for identifying their binding partners. The sequences shown
XX in AAY76224 to AAY76424 represent fragments of the secreted proteins

XX SQ Sequence 509 AA;

Query Match 99.6%; Score 2612.5; DB 1; Length 509;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 507; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 MDKLGKRMASLILAVLLLLERGMFSSPPPALKEKVFQYIDADDEFVQTLKENVAI 59

DB 1 MDKLGKRMASLILAVLLLLERGMFSSPPPALKEKVFQYIDADDEFVQTLKENVAI 60

QY 60 ESDSVQVPPRPFQELFMAVAADTQRLGARVASVMKPGQQLPDGSLPPIYALBLG 119

DB 61 ESDSVQVPPRPFQELFMAVAADTQRLGARVASVMKPGQQLPDGSLPPIYALBLG 120

QY 120 SDPTKGVCFYGHLDVQPADRGDGLTDPVYLTFVDSKLXGRGATDKKGPLAVINAVSA 179

DB 121 SDPTKGVCFYGHLDVQPADRGDGLTDPVYLTFVDSKLXGRGATDKKGPLAVINAVSA 180

QY 180 FRALQDLPVNIKRIIEGMEAGSVALLEVEKEDKFFSGVDYIVISDNIMISQKPAI 239

DB 181 FRALQDLPVNIKRIIEGMEAGSVALLEVEKEDKFFSGVDYIVISDNIMISQKPAI 240

QY 240 TYGTRGNSYFMVYKCKDDQDFHSQTFGGTILHEPMAIDVALIGSYVSSGHTLVGITYDEV 299

DB 241 TYGTRGNSYFMVYKCKDDQDFHSQTFGGTILHEPMAIDVALIGSYVSSGHTLVGITYDEV 300

```
OY 300 VPLTEEEINTYKAHIDLEBYRNSRVEKELPPTKEIIMHLMWRYPPLSLIHGIEGADPEP 359
DB 301 VPLTEEEINTYKAHIDLEBYRNSRVEKELPPTKEIIMHLMWRYPPLSLIHGIEGADPEP 360
OY 360 GKRTVIRGAVIGFESIRLVPHMVSAVEKQVTRHLEDDVFSKRNSSNMQVVSMTLGLHPMI 419
DB 361 GKRTVIRGAVIGFESIRLVPHMVSAVEKQVTRHLEDDVFSKRNSSNMQVVSMTLGLHPMI 420
OY 420 ANIDTQYLAAKRAIRTVGTEDPMIRDGSTIPIAKMFOEIVKSVYLIPLAGAVDDGHS 479
DB 421 ANIDTQYLAAKRAIRTVGTEDPMIRDGSTIPIAKMFOEIVKSVYLIPLAGAVDDGHS 480
OY 480 ONEKINRMYIIBGTKLPAAPFLEMAQLH 507
DB 481 ONEKINRMYIIBGTKLPAAPFLEMAQLH 508
```

Search completed: February 17, 2005, 15:19:48
Job time : 0.001 secs

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10036342-57vsaay08759.res

Page 2

Search completed: February 17, 2005, 15:23:27
Job time : 1 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 16:02:03 ; Search time 0.001 Seconds

(without alignments)
125.229 Million cell updates/sec

Title: us-10-036-342-57

Perfect score: 2623
Sequence: 1 MDPLGRMAASLAVLLLL.....NYIGTKLFAAFLEMAQLH 507Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 segs, 247 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0
Maximum DB seq length: 2000000000Post-processing: Minimum Match 0%
Listing first 45 summaries

Database : aaw19339.geneseqp19908.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	57	2.2	247	1 AAW19339	Hybrid polypeptide

ALIGNMENTS

RESULT 1
AAW19339
ID AAW19339 standard; protein; 247 AA.
XX
AC AAW19339;
XX
XX 17-OCT-2003 (revised)
DT 25-MAR-2003 (revised)
DT 11-MAR-1998 (first entry)
XX
DE Hybrid polypeptide P102 for detecting antibodies to HIV-1.
XX
XX Hybrid; chimeric; fusion; polypeptide; P102; detection; antibody;
KW VCPM B-5876; pol; beta-galactosidase; reverse transcriptase;
KW immunodetection; infection.
XX
OS Human immunodeficiency virus 1.
OS Escherichia coli.
OS Chimeric.
XX
XX R02071502-C1.
XX PD 10-JAN-1997.
XX
XX 28-FEB-1992; 92SU-05029950.
XX PF 28-FEB-1992; 92SU-05029950.
XX PR 28-FEB-1992; 92SU-05029950.

XX (BIOS-) BIOSERVIS BIOTECHN CO.

XX Zaitsev IZ, Sukhanova LL, Alatorseva GI;

XX WPI; 1997-371403/34.
XX DR N-PSDB; AAT73713.PT Hybrid polypeptide P102 for detecting antibodies to HIV-1 - comprises HIV
PT -1 reverse transcriptase fused to E.coli beta-galactosidase.

XX Claim 1; Col 11; 6pp; Russian.

XX The present sequence is the hybrid polypeptide P102 for detecting
XX antibodies to human immunodeficiency virus type 1 (HIV-1). P102 is
XX produced by E. coli VCPM B-5876 transformed by recombinant DNA plasmid
XX pHP102 carrying a fragment of the HIV-1 pol gene fused to the E. coli
XX beta-galactosidase gene. P102 is capable of binding antibodies to HIV-1
XX reverse transcriptase (i.e. the pol gene product). P102 is useful for
XX immunodetection of HIV-1 infection. (Updated on 25-MAR-2003 to correct PF
XX field.) (Updated on 25-MAR-2003 to correct PR field.) (Updated on 17-OCT-
XX 2003 to standardise OS field)

SQ Sequence 247 AA;

Query Match 2.2%; Score 57; DB 1; Length 247;
Best Local Similarity 23.5%; Pred. No. 0;
Matches 32; Conservative 18; Mismatches 56; Indels 30; Gaps 5;

QY	275	DLVALGSLVDSGHIIVPGI-----YDEVVPLTEBEINTYKAHLDLEXY	320
DB	114	DIQTLVCKLNMAQ--IYPGIKVQQLCKLRGTALREVPPLTBEA-----LELAEN	163
QY	321	RN--SSRYEKFLPDKKEILMLWRPSSLIHGEGAPDEPGTKTVIPGRVIGKFSRLV	378
DB	164	REILKEPVHGIVYDPSKDLIAEIQKQ---QGFEALQDSGLFVNITTSQVALGIQAQ	219
QY	379	PHNVSAVEKQVTRHL	394
DB	220	PDKSESELVNOITIEQL	235

Search completed: February 17, 2005, 16:02:03
Job time : 0.001 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 16:05:18 ; Search time 0.001 Seconds

(without alignments)
135.369 Million cell updates/sec

Title: us-10-036-342-57

Perfect score: 2623

Sequence: 1 MDPLGRMASLAVLLLL.....NYIGTKLFAAFLEMAQLH 507

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 267 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : aar40171.geneseqp19908:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	33	1.3	267	1	Sequence encoded b

ALIGNMENTS

RESULT 1
ID AAR40171 standard; protein; 267 AA.
XX
AC AAR40171;
XX
XX 08-FEB-1994 (first entry)
XX
DE Sequence encoded by chicken brain cDNA encoding acetylcholine receptor-
DE inducing activity (ARIA) protein E18.
XX
XX acetylcholine receptor-inducing activity protein; ARIA; E18.
XX
XX Gallus.
XX
XX US5237056-A.
XX
XX 17-AUG-1993.
XX
XX 29-MAY-1991; 91US-00706872.
XX
XX 29-MAY-1991; 91US-00706872.
XX
XX (HARD) HARVARD COLLEGE.
XX
XX Fischbach GD;
XX

DR MPI; 1993-272184/34.
DR N-PSDB; AAQ46887.

XX DNA encoding protein which co-purifies with acetylcholine receptor-
XX inducing activity - used to obtain prods. for treating deficiencies in
XX neutral transmitter receptors, e.g. Alzheimer's disease.

XX Disclosure; Fig 2; 17pp; English.

XX ARIA promotes the synthesis and accumulation of acetylcholine receptors
CC (AChRs) in muscle cells. The protein was isolated on the basis of its
CC ability to increase the rate of insertion of AChRs into the surface
CC membrane of chick myotubes. Oligos with sequences corresp. to the
CC sequence of the protein were used to amplify from chicken brain cDNA a 34
CC -nucleotide sequence encoding 11 AAs from ARIA. The 34-nucleotide
CC sequence corresp. to the 3' nucleotides of the 7th AA codon through the
CC 3' nucleotide of the 18th AA codon. Each primer contd. an EcoRI site at
CC its 5' end. The first pair of oligos are AAQ46882/Q46883. The second pair
CC are AAQ46884/Q46885. The oligos are nested pairs. The PCR amplified prod.
CC was used as a probe to screen an E18 chick brain cDNA library. AAQ46887
CC is the insert from a positive clone obtd. by the screening an E18 chick
CC brain cDNA library in lambda gt10 and introduced into a plasmid
CC designated p65-21

XX Sequence 267 AA:

Query Match 1.3%; Score 33; DB 1; Length 267;
Best Local Similarity 75.0%; Pred. No. 0;
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 9 AASLAVLLLL 20
| : |||||
Db 249 ADTWLAVLLLL 260

Search completed: February 17, 2005, 16:05:18
Job time : 0.001 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 16:08:02 ; Search time 0.001 Seconds

(without alignments)
459.342 Million cell updates/sec

Title: us-10-036-342-57
Perfect score: 2623

Sequence: 1 MDPRLGSMASLAVLLLL.....NYEGTKLFAFLMAQLH 507

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 906 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : aar64250.geneseqp1990s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	55	2.1	906	1 AAR64250	Human mglur1B. Ho

ALIGNMENTS

RESULT 1
ID AAR64250 standard; protein; 906 AA.

AC AAR64250;
XX 25-MAR-2003 (revised)
DT 21-JUL-1995 (first entry)
XX

DE Human mglur1B.

XX Metabotropic glutamate receptor; mglur1; mglur1B; cerebellum; PCMV-T7-3.

XX Homo sapiens.

XX MO9429449-A1.

XX 22-DEC-1994.

XX 03-JUN-1994; 94WO-US006273.

XX 04-JUN-1993; 93US-00072574.

XX (SALK) SALK INST BIOTECHNOLOGY IND ASSOC.

XX Daggett L, Ellis SB, Liaw C, Ponteler A, Johnson EC, Hess SD;

DR WPI; 1995-036478/05.
XX N-PSDB; AAQ80416.

XX New DNA encoding human metabotropic glutamate receptor sub-type(s) - and
PT related proteins, probes, RNA, transformed cells and antibodies, useful
PT in treatment, diagnosis and identification of specific modulators.

XX Claim 3; Page 75-79; 125pp; English.

XX A human cerebellum cDNA library was screened with DNA encoding the rat
CC mglur1 receptor. Several clones were isolated, and a complete sequence
CC was obtained by ligating overlapping clones. The resulting construct
CC (given in AAQ80416) encoded human mglur1B (AAR64250). The encoding
CC sequence was operatively linked to the regulatory elements in PCMV-T7-3
CC for expression in mammalian cells. (Updated on 25-MAR-2003 to correct PN
CC field.)

XX Sequence 906 AA;

Query Match 2.1%; Score 55; DB 1; Length 906;
Best Local Similarity 17.2%; Pred. No. 0; Indels 184; Gaps 22;
Matches 80; Conservative 58; Mismatches 143;

QY	102	LPDQSLP-----	IPVILAEISDPRTKTCVCFY	130
DB	141	LPDQSLPRTKTKRPIAGVIGPSSVAIQVNLQLEFDIPQIAYSATSIDLSKTIYKY		200
QY	131	GHLDPVAD-----	RGDGLTPPYLTFEVDKLYGRGATD-----	NKGPVLA 172
DB	201	-FLRVPSDTLQARAMDIVKRYVWTVYSAVHTGN-----	YGESGMDAFKEIAQEGCIA	256
QY	173	WINVSA-----	FRLEQDLP-----	VNIKEITEGMEHAGSVALEBYE 211
DB	257	HSDKIYNAGKSPDLLRLKRLERLPARVVVCFCEGMYKGLSAMRRLGVGEFSLIG		316
QY	212	K---EKDRFSGVDYIVISDNLWISOKRPATITGTRGNSYFM---VEVKCRD---ODFH		261
DB	317	SDGWADDEVYEGE-VEANGGITIKLQSPBV---RSFDYFLKRLDTRNRMWPFEPW		372
QY	262	SGTF---GGILHEP-----	MADVALLGSLVDSGGHILV	292
DB	373	QHRFCRLPGHLLENPFNFKICTGNESELENYVDGSKWGFVYNAIYMAHGLQWHTALC		432
QY	293	P---GIYDEVVPLTBEELINTYKAHLDLEBYRNSRYEKLFDYKEELIHLMYRPSLSI		349
DB	433	PGHVGLCDAMKPI-----	DSKLLDLFLIKSS-----	FTGV 462
QY	350	HGIEGAFDEPQTKTVIGRVYIGKFSIRLPHMNVSAVEKQVTRHLEDVFSKNSNKKVV		409
DB	463	SGEEVWFDEKSD---AFGR---YDI-----MLQYTE-----	ANRYDY	494
QY	410	SMTGLHPWIANIDDTQYLAAKRAIRTVFGTEP-----	DMIRDG	448
DB	495	VHVGTMHEGVLANIDYKIQNMKSGVSVCSPECLKQIKYIRKG		539

Search completed: February 17, 2005, 16:08:02
Job time : 0.001 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 16:11:01 ; Search time 0.001 Seconds

(without alignments)
497.874 Million cell updates/secTitle: us-10-036-342-57
Perfect score: 2623

Sequence: 1 MDPRLGMMASLAVLLLL.....NYISGTKLFAFLEMAQLH 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 982 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : aar09301.geneseqp1990s:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	63.5	2.4	982	1 AAR09301	Sequence deduced f

ALIGNMENTS

RESULT 1
ID AAR09301
XX AAR09301 standard; protein; 982 AA.
XX
AC AAR09301;
XX
XX 24-OCT-2003 (revised)
DT 27-AUG-2003 (revised)
DT 25-MAR-2003 (revised)
DT 27-FEB-1991 (first entry)
XX
DE Sequence deduced from pol gene of HIV 1-NDK.
XX
XX Human immunodeficiency virus; AIDS.
XX
XX Human immunodeficiency virus 1; isolate NDK.
OS
XX WO9013630-A.
FN
XX 15-NOV-1990.
XX
XX 03-MAY-1989; 89FR-00005914.
PE
XX 03-MAY-1989; 89FR-00005914.
PR
XX (INRM) INSERM INST NAT SANTE & RECH MED.
XX

PI Barresinou F, Chermann JC, Devaux C, Rey F, Sire J, Spire B;
XX WPI; 1990-361470/48.
DR N-PSDB; AAQ06635.
XX

PT New HIV-NDK retrovirus and protein component - used in vaccines against
XX immuno-deficiency disorders and in raising MAb's for retro-virus detection
XX in vivo.
XX

PS Disclosure; Fig 2; 37pp; French.

XX The HIV NDK virus was isolated from peripheral blood lymphocytes of an
CC AIDS patient. A genomic library was prep'd. from DNA extracted from CEM
CC cells infected with the virus. The library was screened with a pMT probe
CC corresp. to a fragment from HIV 1. The virus is more cytopathic than
CC other strains and is not inhibited by OKT4. It has been deposited as
CC CINCW 1-857. The sequence can be used to express proteins useful for
CC diagnosing the presence of NDK and related viruses and in vaccines
CC against immunodeficiency diseases. See also AAR09301-5. (Updated on 25-
CC MAR-2003 to correct PA field.) (Updated on 25-MAR-2003 to correct PI
CC field.) (Updated on 27-AUG-2003 to correct OS field.) (Updated on 24-OCT-
CC 2003 to standardise OS field)
XX

SQ Sequence 982 AA;

Query Match 2.4%; Score 63.5; DB 1; Length 982;
Best local Similarity 20.3%; Pred. No. 0;
Matches 44; Conservative 33; Mismatches 67; Indels 73; Gaps 13;

Qy	298	EVPPLTEEEINTYKAIHLDLEERN--SSRVEKLPPTKEEILMHL-----WRPSLS	348
Db	425	EVVLTEE-----AELELAENREILKEPHGVYDPSKDLIAELQKSGDQWTYQ---	474
Qy	349	IHGIEGAFDEP--CTKTVIPGRVIGKPSIRIVPMN-----VSAVEKQVTRHLEDVSKR	401
Db	475	-----IYQEBPFKNLKT-----GKYARTRGAGHTNDVKQLTEAVOKIATESI--VIWCK	519
Qy	402	NSSNKNVVM-----TLGHPWIAN-IDDTQVLAKKRAIRTVFGTEPMIRGSGTIPAKM	456
Db	520	TPKRFPLPQKETWETWMEYQATWIPMEV-----NTPPLVKL	559
Qy	457	FOEIVHKSVALIPGAVD---DGEHSQNEKINRWNYI	490
Db	560	WYQLEKEPII---GAEIFYDGAANRETKLGKAGIV	592

Search completed: February 17, 2005, 16:11:02
Job time : 0.001 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 16:17:31 ; Search time 0.001 Seconds
(without alignments)
51.207 Million cell updates/sec

Title: us-10-036-342-57
Perfect score: 2623
Sequence: 1 MDPKLGMAASLAVLLLL.....NYIEGTKLFAAFLEMAQLH 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 101 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : aar91823.genpept:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	38.5	1.5	101	1 AAR91823	

ALIGNMENTS

RESULT 1
AAR91823

Query Match 1.5%; Score 38.5; DB 1; Length 101;
Best Local Similarity 25.3%; Pred.No. 0;
Matches 19; Conservative 10; Mismatches 25; Indels 21; Gaps 4;

QY	196	EGMEAGSVALELVEKEDRF-----SGVDYIVISDNLWISQKRA-----ITY 241
DB	4	QSLSSGG---DLVKEGSLTCTAGSF--STNYWCWQAPKGLEWIACTDA 56
QY	242	GTRGNSYFMVEVKR 256
DB	57	GSSGTTYASWAKGR 71

Search completed: February 17, 2005, 16:17:31
Job time : 0.001 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 16:19:15 ; Search time 0.001 Seconds
(without alignments)
7.605 Million cell updates/sec

Title: us-10-036-342-57

Perfect score: 2623

Sequence: 1 MDPLGRMAASILAVALLL.....NYIGTKLPAAFLEMAQLH 507

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 15 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : aaw39029.geneseqp19908.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	40	1.5	15	AAW39029	Peptide resembling

ALIGNMENTS

RESULT 1
AAW39029
ID AAW39029 standard; peptide; 15 AA.
XX
AC AAW39029;
XX
DT 27-MAR-1998 (first entry)
XX
DE Peptide resembling an SH3 domain binding peptide SEQ ID NO:428.
XX
KW Cortactin; SH3 domain; binding peptide; Src homology region 3;
KW tyrosine kinase; immune response; lymphokine; interleukin 1; Nck; Abl;
KW PLCgamma; p53bp2; Crk; Yes; Grb2.
XX
OS Synthetic.
XX
FN W09730074-A1.
XX
PD 21-AUG-1997.
XX
PF 14-FEB-1997; 97MO-US002238.
XX
PR 16-FEB-1996; 96US-00602999.
XX
PA (CYTO-) CYTOGEN CORP.
PA (UWNC-) UNIV NORTH CAROLINA.
XX

PI Sparks AB, Kay BK, Thorn UM, Quilliam LA, Der CJ, Fowlkes DM;
PI Rider JE;
XX
DR WI; 1997-424972/39.
XX

Src homology region 3 binding peptide - used to activate Src tyrosine kinase(s) and to stimulate immune response by increasing production of certain lymphokine(s), e.g. interleukin-1.

PS Claim 22; Page 93; 131pp; English.

XX The present sequence represents a peptide which resembles a Src homology region 3 (SH3) binding peptide. SH3 binding peptides are selected from: CC (a) peptides which bind the SH3 domain of Cortactin; (b) peptides which CC bind the middle SH3 domain of Nck; (c) peptides which bind the SH3 domain CC of Abl; (d) peptides which bind the SH3 domain of Src; (e) peptides which CC bind the SH3 domain of PLC gamma; (f) peptides which bind the SH3 domain CC of p53bp2; (g) peptides which bind the amino-terminal SH3 domain of Crk; CC (h) peptides which bind the SH3 domain of Yes; and (i) peptides which CC bind the amino-terminal SH3 domain of Grb2. The purified binding peptides CC can be used in the method to identify inhibitors of their binding to CC their respective SH3 domains, which could be used to modulate the CC pharmacological activity of proteins or polypeptide containing the SH3 CC domain. The peptides can also be used to activate Src or Src-related CC protein tyrosine kinases, to stimulate the immune response by increasing CC the production of certain lymphokines, e.g. tumour necrosis factor-alpha CC and interleukin-1, or to deliver a conjugated molecule to certain CC cellular compartments containing Src or Src related proteins CC
XX
SQ Sequence 15 AA;

QY 26 SSPSPPP 32 1.5%; Score 40; DB 1; Length 15;
DB 1 SSPSPPP 7 Best Local Similarity 100.0%; Pred. No. 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Search completed: February 17, 2005, 16:19:15
Job time : 0.001 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 17:29:59 ; Search time 0.001 Seconds
(without alignments)
257.556 Million cell updates/sec

Title: us-10-036-342-57
Perfect score: 2623
Sequence: 1 MDPKLGMAASLAVLALLL.....NYIEGTLFAAFLEMAQLH 507

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 508 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : us-09-731-872-242:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	2612.5	99.6	508	1	us-09-731-872-242

ALIGNMENTS

RESULT 1
us-09-731-872-242

Query Match Best Local Similarity 99.6%; Score 2612.5; DB 1; Length 508;

Matches 507; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY	1	MDPKLGMAASLAVL	1	MDPKLGMAASLAVL	1
DB	1	MDPKLGMAASLAVL	1	MDPKLGMAASLAVL	1
QY	60	ESDSVQVPRFRQELFRMAVAADTLQRLGARVASVDMGPOQLPDGSLPIPVILAEIG	119	ESDSVQVPRFRQELFRMAVAADTLQRLGARVASVDMGPOQLPDGSLPIPVILAEIG	119
DB	61	ESDSVQVPRFRQELFRMAVAADTLQRLGARVASVDMGPOQLPDGSLPIPVILAEIG	120	ESDSVQVPRFRQELFRMAVAADTLQRLGARVASVDMGPOQLPDGSLPIPVILAEIG	120
QY	120	SDPTKGTVCYFGHLDVQPADRGDGLTDPYVLTEVDGKLYGRGATDNKGPIVLAIVNAVSA	179	SDPTKGTVCYFGHLDVQPADRGDGLTDPYVLTEVDGKLYGRGATDNKGPIVLAIVNAVSA	179
DB	121	SDPTKGTVCYFGHLDVQPADRGDGLTDPYVLTEVDGKLYGRGATDNKGPIVLAIVNAVSA	180	SDPTKGTVCYFGHLDVQPADRGDGLTDPYVLTEVDGKLYGRGATDNKGPIVLAIVNAVSA	180
QY	180	FRALEQDLPVNIKFIIIEGMEASVALBELVEKEKDRFFSGVDYIVISDNLMISORKEPI	239	FRALEQDLPVNIKFIIIEGMEASVALBELVEKEKDRFFSGVDYIVISDNLMISORKEPI	239
DB	181	FRALEQDLPVNIKFIIIEGMEASVALBELVEKEKDRFFSGVDYIVISDNLMISORKEPI	240	FRALEQDLPVNIKFIIIEGMEASVALBELVEKEKDRFFSGVDYIVISDNLMISORKEPI	240
QY	240	TYGTRGNSYFMEVEKCRDQDFHSGTFGGILHEPMADIVALLGSLVDSGHIIVPGIYDEV	299	TYGTRGNSYFMEVEKCRDQDFHSGTFGGILHEPMADIVALLGSLVDSGHIIVPGIYDEV	299
DB	241	TYGTRGNSYFMEVEKCRDQDFHSGTFGGILHEPMADIVALLGSLVDSGHIIVPGIYDEV	300	TYGTRGNSYFMEVEKCRDQDFHSGTFGGILHEPMADIVALLGSLVDSGHIIVPGIYDEV	300

QY	300	VPLTEERINTYKAITHLDLEERYNSRYEKEFLPTKEEILMHLWRYPSLSIHGIEGAFDEP	359	VPLTEERINTYKAITHLDLEERYNSRYEKEFLPTKEEILMHLWRYPSLSIHGIEGAFDEP	359
DB	301	VPLTEERINTYKAITHLDLEERYNSRYEKEFLPTKEEILMHLWRYPSLSIHGIEGAFDEP	360	VPLTEERINTYKAITHLDLEERYNSRYEKEFLPTKEEILMHLWRYPSLSIHGIEGAFDEP	360
QY	360	GTCTVIGRAVIGKFSILVPHMNVSAVEKQVTRHLEDFVFSKRNSNKKVTSMTLGLHPWI	419	GTCTVIGRAVIGKFSILVPHMNVSAVEKQVTRHLEDFVFSKRNSNKKVTSMTLGLHPWI	419
DB	361	GTCTVIGRAVIGKFSILVPHMNVSAVEKQVTRHLEDFVFSKRNSNKKVTSMTLGLHPWI	420	GTCTVIGRAVIGKFSILVPHMNVSAVEKQVTRHLEDFVFSKRNSNKKVTSMTLGLHPWI	420
QY	420	ANIDDTQYLAAKRAIRTVFGTEPMDIRDSITPIAKMFOEIVHKSIVLLPLGAVDGEHS	479	ANIDDTQYLAAKRAIRTVFGTEPMDIRDSITPIAKMFOEIVHKSIVLLPLGAVDGEHS	479
DB	421	ANIDDTQYLAAKRAIRTVFGTEPMDIRDSITPIAKMFOEIVHKSIVLLPLGAVDGEHS	480	ANIDDTQYLAAKRAIRTVFGTEPMDIRDSITPIAKMFOEIVHKSIVLLPLGAVDGEHS	480
QY	480	QNEKINRMNYIEGTLFAAFLEMAQLH 507		QNEKINRMNYIEGTLFAAFLEMAQLH 507	
DB	481	QNEKINRMNYIEGTLFAAFLEMAQLH 508		QNEKINRMNYIEGTLFAAFLEMAQLH 508	

Search completed: February 17, 2005, 17:30:00
Job time : 1 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 17:32:29 ; Search time 0.001 Seconds
(without alignments)
257.556 Million cell updates/sec

Title: us-10-036-342-57
Perfect score: 2623
Sequence: 1 MDPKLGMAASLAVLLLL.....NYIEGTLKFAFLEMAQLH 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 508 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : us-09-948-783-139.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2612.5	99.6	508	1	us-09-948-783-139

ALIGNMENTS

RESULT 1
us-09-948-783-139

Query Match 99.6%; Score 2612.5; DB 1; Length 508;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 507; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY	1	MDPKLGMAASLAV-LLLLERGMFSSPPPALLEKVFQYIDLHODEFVQTLKEWVAI	59
DB	1	MDPKLGMAASLAVLLLLERGMFSSPPPALLEKVFQYIDLHODEFVQTLKEWVAI	60
QY	60	ESDSVQVYPRPROELFRMAVAADTLQRLGARVASVDMGPQQLPDGQSLPIPVITAEIG	119
DB	61	ESDSVQVYPRPROELFRMAVAADTLQRLGARVASVDMGPQQLPDGQSLPIPVITAEIG	120
QY	120	SDPTKGTVCFFGHI.DVQPADRGDGLTDPVYLTEVDGKLYGRGATDNKGPIVAMINAVSA	179
DB	121	SDPTKGTVCFFGHI.DVQPADRGDGLTDPVYLTEVDGKLYGRGATDNKGPIVAMINAVSA	180
QY	180	FRALQDLPVNIKEFIEGMEBAGSVALEVEKEKDRFFSGVDYIVISDNLMISQKKPAI	239
DB	181	FRALQDLPVNIKEFIEGMEBAGSVALEVEKEKDRFFSGVDYIVISDNLMISQKKPAI	240
QY	240	TYGTRGNSYFNVAVKCRDQDFHSGTFGGITLHEPMADLVALLGSLVDSGHLVPGIYDEV	299
DB	241	TYGTRGNSYFNVAVKCRDQDFHSGTFGGITLHEPMADLVALLGSLVDSGHLVPGIYDEV	300

QY	300	VPLTEEBINTYKAIHLDLEBYRNSRYEKEFLPTKEEILMHLWRYPSSLIHGIEGAFDEP	359
DB	301	VPLTEEBINTYKAIHLDLEBYRNSRYEKEFLPTKEEILMHLWRYPSSLIHGIEGAFDEP	360
QY	360	GTKTVIPGRVIGKPSILVPHMNVSAVEKQVTRLELVFSKRNSNOMVSMITGLHPWI	419
DB	361	GTKTVIPGRVIGKPSILVPHMNVSAVEKQVTRLELVFSKRNSNOMVSMITGLHPWI	420
QY	420	ANIDDTQYLAAKRAIRTVFGTEPDMIRDGSTIPIAKMFOEIVHKSVVILPLGAVDDGEHS	479
DB	421	ANIDDTQYLAAKRAIRTVFGTEPDMIRDGSTIPIAKMFOEIVHKSVVILPLGAVDDGEHS	480
QY	480	QNEKINRMNYIEGTLKFAFLEMAQLH 507	
DB	481	QNEKINRMNYIEGTLKFAFLEMAQLH 508	

Search completed: February 17, 2005, 17:32:29
Job time : 0.001 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 17, 2005, 17:33:32 ; Search time 0.001 Seconds
(without alignments)
258.063 Million cell updates/sec

Title: us-10-036-342-57

Perfect score: 2623
Sequence: 1 MDPKLGMAASLAVLVL...NYIRGTQLFAFLEMAQLH 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 509 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : us-09-892-877-137.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2612.5	99.6	509	1	us-09-892-877-137

ALIGNMENTS

RESULT 1
us-09-892-877-137

Query Match 99.6%; Score 2612.5; DB 1; Length 509;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 507; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY	1	MDPKLGMAASLAVLVL			MDPKLGMAASLAVLVL	59
DB	1	MDPKLGMAASLAVLVL			MDPKLGMAASLAVLVL	60
QY	60	ESDSVQPVPRFQELFRMAVAADTLQRLGARVASVDMGPQOLPDGOSLPPIPVILAEIG			ESDSVQPVPRFQELFRMAVAADTLQRLGARVASVDMGPQOLPDGOSLPPIPVILAEIG	119
DB	61	ESDSVQPVPRFQELFRMAVAADTLQRLGARVASVDMGPQOLPDGOSLPPIPVILAEIG			ESDSVQPVPRFQELFRMAVAADTLQRLGARVASVDMGPQOLPDGOSLPPIPVILAEIG	120
QY	120	SDPTKGTVCFTGHLDVQPADRGDGLTDPYVLTVDGKLYGRGATDNKGPVILAMINAVSA			SDPTKGTVCFTGHLDVQPADRGDGLTDPYVLTVDGKLYGRGATDNKGPVILAMINAVSA	179
DB	121	SDPTKGTVCFTGHLDVQPADRGDGLTDPYVLTVDGKLYGRGATDNKGPVILAMINAVSA			SDPTKGTVCFTGHLDVQPADRGDGLTDPYVLTVDGKLYGRGATDNKGPVILAMINAVSA	180
QY	180	FRALRQDLPVNKKFIIEGMEASVALBELVEKEKORFFSGVDYIVISDNLMISOKKPAI			FRALRQDLPVNKKFIIEGMEASVALBELVEKEKORFFSGVDYIVISDNLMISOKKPAI	239
DB	181	FRALRQDLPVNKKFIIEGMEASVALBELVEKEKORFFSGVDYIVISDNLMISOKKPAI			FRALRQDLPVNKKFIIEGMEASVALBELVEKEKORFFSGVDYIVISDNLMISOKKPAI	240
QY	240	TYGTRGNSYFMVEVAKCRDQDFHSSTFGGILHEPMADLVALGSLVDSSGHILVPGIYDEV			TYGTRGNSYFMVEVAKCRDQDFHSSTFGGILHEPMADLVALGSLVDSSGHILVPGIYDEV	299
DB	241	TYGTRGNSYFMVEVAKCRDQDFHSSTFGGILHEPMADLVALGSLVDSSGHILVPGIYDEV			TYGTRGNSYFMVEVAKCRDQDFHSSTFGGILHEPMADLVALGSLVDSSGHILVPGIYDEV	300

QY	300	VPLTEEBINTYKAHLDLEERYNSRYEKEFLDTEKEILMHLWRYPSLSIHGIEGAFDEP			VPLTEEBINTYKAHLDLEERYNSRYEKEFLDTEKEILMHLWRYPSLSIHGIEGAFDEP	359
DB	301	VPLTEEBINTYKAHLDLEERYNSRYEKEFLDTEKEILMHLWRYPSLSIHGIEGAFDEP			VPLTEEBINTYKAHLDLEERYNSRYEKEFLDTEKEILMHLWRYPSLSIHGIEGAFDEP	360
QY	360	GTKTVIFGRVIGKPSIRLVPHMNVSAVEKQVTRHLEDFSKRNSNKKVVSMTLGLHPWI			GTKTVIFGRVIGKPSIRLVPHMNVSAVEKQVTRHLEDFSKRNSNKKVVSMTLGLHPWI	419
DB	361	GTKTVIFGRVIGKPSIRLVPHMNVSAVEKQVTRHLEDFSKRNSNKKVVSMTLGLHPWI			GTKTVIFGRVIGKPSIRLVPHMNVSAVEKQVTRHLEDFSKRNSNKKVVSMTLGLHPWI	420
QY	420	ANIDDTQYLAAKRAIRTVFGTEPMDIRDSSTPIAKMFOEIVHKSIVLIPGAVDGEHS			ANIDDTQYLAAKRAIRTVFGTEPMDIRDSSTPIAKMFOEIVHKSIVLIPGAVDGEHS	479
DB	421	ANIDDTQYLAAKRAIRTVFGTEPMDIRDSSTPIAKMFOEIVHKSIVLIPGAVDGEHS			ANIDDTQYLAAKRAIRTVFGTEPMDIRDSSTPIAKMFOEIVHKSIVLIPGAVDGEHS	480
QY	480	ONEKINRNNYIEGTQLFAFLEMAQLH 507			ONEKINRNNYIEGTQLFAFLEMAQLH 507	
DB	481	ONEKINRNNYIEGTQLFAFLEMAQLH 508			ONEKINRNNYIEGTQLFAFLEMAQLH 508	

Search completed: February 17, 2005, 17:33:32
Job time : 0.001 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 17:34:38 ; Search time 0.001 Seconds

(without alignments)
254.007 Million cell updates/sec

Title: us-10-036-342-57

Perfect score: 2623

Sequence: 1 MDPRLGRMAASLLAVLLLL.....NYIEGTRKLPAAFLPMAQLH 507

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 501 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : us-09-791-389-2:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2566.5	97.8	501	1	us-09-791-389-2

ALIGNMENTS

RESULT 1
us-09-791-389-2

Query Match 97.8%; Score 2566.5; DB 1; Length 501;

Best Local Similarity 99.4%; Pred. No. 0;
Matches 498; Conservative 1; Mismatches 1; Indels 1; Gaps 1;

OY	8	MAASLLAV-LILLERGMFSSPPPALLEKVFQYIIDLHODEFVOTLKEMVAIESDSVOP	66
Db	1	MAASLLAVLLLLLLERGMFSSPPPALLEKVFQYIIDLHODEFVOTLKEMVAIESDSVOP	60
OY	67	VPRFQELFRMMVAADTLQRLGARVASVDWGPQQLPDGSLPIPPVILAEIGSDPTKGT	126
Db	61	VPRFQELFXMMAVAADTLQRLGARVASVDWGPQQLPDGSLPIPPVILAEIGSDPTKGT	120
OY	127	VCFPGHLDVQAPADGDMLTDPYVLTEDGKLYGRGATDNKGPVLAMINAVSAPFALEOD	186
Db	121	VCFPGHLDVQAPADGDMLTDPYVLTEDGKLYGRGATDNKGPVLAMINAVSAPFALEOD	180
OY	187	LPVNIKFIIIEGMEBAGVALBELVEKEKORFFSGVDYIVISDNLMISQKPAITTYGTRGN	246
Db	181	LPVNIKFIIIEGMEBAGVALBELVEKEKORFFSGVDYIVISDNLMISQKPAITTYGTRGN	240
OY	247	SYFWVEVKCRDQDFHSGTFGGILHEPMADLVALGSLVDSSGHIIVPGIYDEVVPLTEEF	306
Db	241	SYFWVEVKCRDQDFHSGTFGGILHEPMADLVALGSLVDSSGHIIVPGIYDEVVPLTEEF	300

OY	307	INTYKAITHLDEEYRNSSRYVEKFLFDTKERILMLMRYPSSIHIGEGAFDEPGTKTVIP	366
Db	301	INTYKAITHLDEEYRNSSRYVEKFLFDTKERILMLMRYPSSIHIGEGAFDEPGTKTVIP	360
OY	367	GRVIGKFSIRLVPMNVSAYEKQVTRHLEDVFSKRNSSNKVVSMTLGLHPMIANIDDTQ	426
Db	361	GRVIGKFSIRLVPMNVSAYEKQVTRHLEDVFSKRNSSNKVVSMTLGLHPMIANIDDTQ	420
OY	427	YLAARKAIRTVFGTEPDMIRDGSTIPIAKMFOEIVHKSVDLIPGAVDDGHSQNEKINR	486
Db	421	YLAARKAIRTVFGTEPDMIRDGSTIPIAKMFOEIVHKSVDLIPGAVDDGHSQNEKINR	480
OY	487	WNYIEGTRKLPAAFLPMAQLH 507	
Db	481	WNYIEGTRKLPAAFLPMAQLH 501	

Search completed: February 17, 2005, 17:34:39
Job time : 1 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 17, 2005, 17:08:51 ; Search time 0.001 Seconds
(without alignments)
75.036 Million cell updates/sec

Title: us-10-036-342-57

Perfect score: 2623

Sequence: 1 MDPKLGMAASLAVLILLL.....NYIEGTLFAAFLEMAQLH 507

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1 segs, 148 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : us-09-621-976-3957:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	607.5	23.2	148	1	us-09-621-976-3957

ALIGNMENTS

RESULT 1
us-09-621-976-3957

Query Match 23.2%; Score 607.5; DB 1; Length 148;

Best Local Similarity 96.9%; Pred. No. 0;

Matches 124; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY	1	MDPKLGMAASLAV-LILLERGMFSSPPPALLEKVFQYIDLHODEFVQTLKEWVAI	59
DB	1	MDPKLGMAASLAVLILLERGMFSSPPPALLEKVFQYIDLHODEFVQTLKEWVAI	60
QY	60	ESDSVQVPFRFROELFRMAVAADTLQRLGARVASVDMGPOQLPDGQSLPIPVITLAEIG	119
DB	61	ESDSVQVPFRFROELFRMAVAADTLQRLGARVASVDMGPOQLPDGQSLPIPVITLAEIX	120
QY	120	SDPTKGVV	127
DB	121	SDPTXXTV	128

Search completed: February 17, 2005, 17:08:51
Job time : 0.001 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 16:26:43 ; Search time 0.001 Seconds

(without alignments)
243.867 Million cell updates/sec

Title: us-10-036-342-57

Perfect score: 2623
Sequence: 1 MDPLGMAASLAVLALLL.....NYIEGTLFAAFLEMAQLH 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 481 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : s56299.p1r2.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1044	39.8	481	1 S56299	- hypothetical pro

ALIGNMENTS

RESULT 1

S56299 - hypothetical protein YFR044C - yeast (Saccharomyces cerevisiae)

N/Alternate names: hypothetical protein F006

C/Species: Saccharomyces cerevisiae

C/Date: 02-Sep-1995 #sequence_revision 19-Oct-1995 #text_change 09-Jul-2004

C/Accession: S56299; S62255; S63791

R/Murakami, Y.; Naitou, M.; Hagiwara, H.; Shibata, T.; Ozawa, M.; Sasamura, S.I.; Sasamura, M.; Tsuchiya, Y.; Soeda, E.; Yokoyama, K.; Yamazaki, M.;

Tashiro, H.; Eki, T.

Submitted to the EMBL Data Library, May 1995

A/Description: Analysis of the nucleotide sequence of chromosome VI from

Saccharomyces cerevisiae.

A/Reference number: S56186

A/Accession: S56299

A/Molecule type: DNA

A/Residues: 1-481 <MW>

A/Cross-references: UNIPROT:P43616; EMBL:D50617; NID:g836685; PIDN:BAA09283.1;

PID:dl009924; PID:g836739; MIPS:YFR044C

R/Murakami, Y. submitted to the EMBL Data Library, December 1994

A/Reference number: S62230

A/Accession: S62255

A/Molecule type: DNA

A/Residues: 1-481 <MW>

A/Cross-references: EMBL:D44597; NID:g871938; PIDN:BAA08010.1; PID:dl008600;

PID:g871943

R:Eki, T.; Naitou, M.; Hagiwara, H.; Ozawa, M.; Sasamura, S.I.; Sasamura, M.;

Tsuchiya, Y.; Shibata, T.; Hanaoka, F.; Murakami, Y.

Yeast 12, 149-167, 1996

A/Title: Analysis of a 36.2 kb DNA sequence including the right telomere of

chromosome VI from Saccharomyces cerevisiae.

A/Reference number: S63787; MUID:96287652; PMID:8686379

A/Accession: S63791

A>Status: nucleic acid sequence not shown; translation not shown

A/Molecule type: DNA

A/Residues: 1-481 <Eki>

A/Cross-references: EMBL:D44597; NID:g871938; PIDN:BAA08010.1; PID:dl008600;

PID:g871943

A/Note: the nucleotide sequence was submitted to the EMBL Data Library, June

1995

C/Genetics:

A/Cross-references: SGD:S0001940

A/Map position: 6R

A/Note: YFR044C

Query Match 39.8%; Score 1044; DB 1; Length 481;
Best Local Similarity 45.2%; Pred. No. 0;
Matches 212; Conservative 83; Mismatches 169; Indels 6; Gaps 4;

QY	35	LEKVOYIDLHODEFVOTLKEMVAIESDSVQVPRFRQELPRMMAVAADTLQRLGAR-VA	93
DB	5	LTSVPQKIDSLKPPQFSKLTG--AIQIPAVSDESDEBKRVDDKAKFISQLSQSGFHDIK	62
QY	94	SVDMGPQGLP-DGQSLPIPPVILAEIGSDPTKTCVFGHLDVQPADRGDGLDTPY--V	150
DB	63	MVDLGIDPPPISTPLSLPPVILSRFGSDPKKTVLVGHVDVQAQLEDGMDTEPFKLV	122
QY	151	LTEVDGKIYGGAGDNKSPVLAIVNVAFAFALBODLPVNIKFTIEGMEEGSVLLETV	210
DB	123	IDEAKGIMKRGVTDVDTGPTLISWINVDAFASQGEFVNLVTCFEGMEESGSLKLDLTI	182
QY	211	EKEKDRFSGVDYIVISDNLWISOKPAITVYTRGNSYFMVEVKCRDDPFSGTFGILH	270
DB	183	KKEANGYFKGVDAVCISNMYLGTGKRPVLTGTGLACNYYQIIIEPSADLHSGIFGVYA	242
QY	271	EPMDLVALLSGLVDSGHILVPGIYDEVVLTEETINTYKAHLDLEFRNNSRVEKFL	330
DB	243	EPMDLMQVLSLVDSKGLILIDGIDEMVADLTEKELAYKDIERSVELNAATGSKTSL	302
QY	331	FDTKREILMHLMRYPSSLISHGIEGAFDEPGTKTVIPGVIVIKFSPRLVPHNVAIVEQY	390
DB	303	YDKKEDILMRMRYPSSLISHGIEGAFSAQAKTVIPAKVFGKFSIRIVPDMDSEKLTSLV	362
QY	391	TRHLEDVFSKRNSSNKNVSMVLGLHPWIANIDTQVLAARATRTVGTPEMDIRDSST	450
DB	363	QKHCDAKFKSLNSPKKCTELIHGAYVSPFPNAQFTAAKATKLVIGVDPDFTRBGGS	422
QY	451	IPIAKFOEIVHKSIVLILPLGAVDGEHSONEKINRWYIEGTLFAAF	499
DB	423	IPITLTFDALNTSVLLPLPMRGDGAHSINEXKIDISFVGSMKTMAY	471

Search completed: February 17, 2005, 16:26:43
Job time : 0.001 secs

QY 12 LLA V L L L L L E R G M F S S P P A L L - E K V F Q Y I D L H O D E F V Q T L K E W V A I E S D S V Q P V P R F 70

Search completed: February 17, 2005, 16:29:09
Job time : 0.001 secs

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OM protein - protein search, using sw model1

Run on: February 17, 2005, 16:33:34 ; Search time 0.001 Seconds
(without alignments)
257.049 Million cell updates/sec

Title: us-10-036-342-57
Perfect score: 2623
Sequence: 1 MDPKLGMAASLAVLLLL.....NYIRGTLFAAFLEMAQLH 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 507 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : q6uwk2.uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2623	100.0	507	1 Q6UWK2	DPKL1915. Homo sa

ALIGNMENTS

Result ID	Q6UWK2	PRELIMINARY:	PRT:	507 AA.
AC	Q6UWK2:			
DT	05-JUL-2004 (Tremblrel. 27, Created)			
DT	05-JUL-2004 (Tremblrel. 27, Last sequence update)			
DT	05-JUL-2004 (Tremblrel. 27, Last annotation update)			
DE	DPKL1915.			
GN	ORFNames=UNO1915:			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
OX	NCBI_TaxID=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RX	MEDLINE=23887296; PubMed=12975309; DOI=10.1101/gr.1293003;			
RA	Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,			
RA	Chen Y., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,			
RA	Eaton D., Foster J., Grimaldi C., Gu Q., Haas P.E., Heldens S.,			
RA	Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,			
RA	Lewis L., Liao D., Mark M., Robble E., Sanchez C., Schoenfeld J.,			
RA	Seahagiri S., Simons L., Singh V., Stinson J., Vagts A.,			
RA	Vandlen R., Watanabe C., Wleand D., Woods K., Xie M.H., Yatsura D.,			
RA	Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,			
RA	Godowski P.;			
RT	"The secreted protein discovery initiative (SPDI), a large-scale			
RT	effort to identify novel human secreted and transmembrane proteins: a			

RT bioinformatics assessment.
RL Genome Res. 13:2265-2270(2003).
DR EMBL: AY358756; AAC89116.1; -
DR GO: GO:0008237; F:metallopeptidase activity; IEA.
DR GO: GO:0006508; P:proteolysis and peptidolysis; IEA.
DR InterPro: IPR002933; Peptidase M20.
DR Pfam: PF01546; Peptidase M20; 1.
SQ SEQUENCE 507 AA; 56692 MW; F3B5JA9123C927C0 CRC64;

Query Match 100.0%; Score 2623; DB 1; Length 507;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MDPKLGMAASLAVLLLLERGMFSSPPPALKEVFOYIDHODEPVQTEKWAIE	60
DB	1	MDPKLGMAASLAVLLLLERGMFSSPPPALKEVFOYIDHODEPVQTEKWAIE	60
QY	61	SDSVQPVPRFROELFRMAVAADTLQRLGARVASVDGPGQSLPFPVILABIGS	120
DB	61	SDSVQPVPRFROELFRMAVAADTLQRLGARVASVDGPGQSLPFPVILABIGS	120
QY	121	DPTKGTVCFTGHLDPQADRGDWLTDPYVLTVEVDGKLYGRGATDNKGPVLAMINAVSAF	180
DB	121	DPTKGTVCFTGHLDPQADRGDWLTDPYVLTVEVDGKLYGRGATDNKGPVLAMINAVSAF	180
QY	181	RALRQDLPVNFKFTIEGMEERAGSVALBEIVEKEKORFPFGVDYIVISDNLTISORKPAIT	240
DB	181	RALRQDLPVNFKFTIEGMEERAGSVALBEIVEKEKORFPFGVDYIVISDNLTISORKPAIT	240
QY	241	YGTGNSYFVWEVVKCRDQDFHSGTFFGILHEPMADVALLSLVDSGGHILVPGIYDEVV	300
DB	241	YGTGNSYFVWEVVKCRDQDFHSGTFFGILHEPMADVALLSLVDSGGHILVPGIYDEVV	300
QY	301	PLTEEBINTTYKAHLDEEYRNSRVEKFLFDYKEBILMLMKRPSLSHGICEAFDEPG	360
DB	301	PLTEEBINTTYKAHLDEEYRNSRVEKFLFDYKEBILMLMKRPSLSHGICEAFDEPG	360
QY	361	TKTVIPGRVIGKPSIRLVPHNNVSAVEKQVTRHLEDVPSKNSNKNVVSMTGLHPMIA	420
DB	361	TKTVIPGRVIGKPSIRLVPHNNVSAVEKQVTRHLEDVPSKNSNKNVVSMTGLHPMIA	420
QY	421	NIDDTQYLAARAIRTVFGTEPDIMRDGSTIPAKMFOEIVHKSVALPLGAVDDGSHSQ	480
DB	421	NIDDTQYLAARAIRTVFGTEPDIMRDGSTIPAKMFOEIVHKSVALPLGAVDDGSHSQ	480
QY	481	NEKINRWNYIEGTLFAAFLEMAQLH	507
DB	481	NEKINRWNYIEGTLFAAFLEMAQLH	507

Search completed: February 17, 2005, 16:33:34
Job time : 0.001 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 16:35:37 ; Search time 0.001 Seconds
(without alignments)
257.049 Million cell updates/sec

Title: us-10-036-342-57

Perfect score: 2623
Sequence: 1 MDPKLGMAASLAVLL...NYIEGTLFAAFLEMAQLH 507

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 507 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : aag89116.genept.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	2623	100.0	507	1 AAQ89116

ALIGNMENTS

RESULT 1
AAQ89116

Query Match 100.0% ; Score 2623 ; DB 1 ; Length 507 ;

Best Local Similarity 100.0% ; Pred. No. 0 ;
Matches 507 ; Conservative 0 ; Mismatches 0 ; Indels 0 ; Gaps 0 ;

QY	1	MDPKLGMAASLAVLL...NYIEGTLFAAFLEMAQLH 507
DB	1	MDPKLGMAASLAVLL...NYIEGTLFAAFLEMAQLH 507
QY	61	SDSVQPVRRFRQELFRMVAADTLQRLGARVASVDMGPQQLPDGQSLPIPPVILAEIGS 120
DB	61	SDSVQPVRRFRQELFRMVAADTLQRLGARVASVDMGPQQLPDGQSLPIPPVILAEIGS 120
QY	121	DPTGTCVCFYGLDVPADRGDGLTPPYVLTVDGKLYRGATDNKGPVLAIVASAF 180
DB	121	DPTGTCVCFYGLDVPADRGDGLTPPYVLTVDGKLYRGATDNKGPVLAIVASAF 180
QY	181	RALRQDLFVNIFKFIIEGMEAGSVALBELVEKEKDRFSGVDYIYISDNLWISQKRPAT 240
DB	181	RALRQDLFVNIFKFIIEGMEAGSVALBELVEKEKDRFSGVDYIYISDNLWISQKRPAT 240
QY	241	YGTGNSYFVWEVVKCRDQDFHSGTFGGILHEPMADLVALGLVDSSGHILVPGIYDEVV 300
DB	241	YGTGNSYFVWEVVKCRDQDFHSGTFGGILHEPMADLVALGLVDSSGHILVPGIYDEVV 300

QY	301	PLTEEINTYKAIHLDLEERYNSRVEKFLPDTKEIIMLMRYPSLSIHIGEGAPDEPG 360
DB	301	PLTEEINTYKAIHLDLEERYNSRVEKFLPDTKEIIMLMRYPSLSIHIGEGAPDEPG 360
QY	361	TKTIVPGRVIGKFSIRLVPHMNVSAVEKQYTRHLEDVFSKRNSSNKQVSWTGLHPWIA 420
DB	361	TKTIVPGRVIGKFSIRLVPHMNVSAVEKQYTRHLEDVFSKRNSSNKQVSWTGLHPWIA 420
QY	421	NIDTQYLAAKRAIRTVFGTEPDMIRDSSTIPIAKMFOEIVHKSVALIPLGAVDDGHSQ 480
DB	421	NIDTQYLAAKRAIRTVFGTEPDMIRDSSTIPIAKMFOEIVHKSVALIPLGAVDDGHSQ 480
QY	481	NEKINRMNYIEGTLFAAFLEMAQLH 507
DB	481	NEKINRMNYIEGTLFAAFLEMAQLH 507

Search completed: February 17, 2005, 16:35:37
Job time : 0.001 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 16:38:39 ; Search time 0.001 seconds
(without alignments)
257.556 Million cell updates/sec

Title: us-10-036-342-57

Perfect score: 2623

Sequence: 1 MDPKLGKMAASLAVLILL.....NYIGTKLFAAFDEMAQLH 507

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1 seeg, 508 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : cgl2_human.uniprot_sprot.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2585.5	98.6	508	1 CGL2_HUMAN	Glutamate carboxyp

ALIGNMENTS

RESULT 1

CG12_HUMAN	STANDARD	PRT	508 AA
AC Q96KN2; Q9BT98;			
DT 28-FEB-2003 (Rel. 41, Created)			
DT 28-FEB-2003 (Rel. 41, Last sequence update)			
DT 25-OCT-2004 (Rel. 45, Last annotation update)			
DE Glutamate carboxypeptidase-like protein 2 precursor (CNDP dipeptidase 1).			
GN Name=CNDP1; Synonyms=CPGL2;			
OS Homo sapiens (Human).			
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.			
OX NCBI_TaxID=9606;			
RN [1]			
RP SEQUENCE FROM N.A.			
RC TISSUE=Brain;			
RA Chen J.M., Barrett A.J.;			
RT "Cloning and sequencing of a second human homologue of glutamate			
RT carboxypeptidase in peptidase family M20."			
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.			
RN [2]			
RP SEQUENCE OF 199-508 FROM N.A.			
RC TISSUE=Skin;			
RX MEDLINE=2388257; PubMed=12477932; DOI=10.1073/pnas.242603899;			
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,			
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,			

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diachenko L., Marinova K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Donald M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Uedlin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulik S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Hellon B., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Buterfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,
RA Schumacher A., Schein J.E., Jones S.J.M., Marra M.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."

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CC EMBL, AJ417564; CAD10388.1; -;
CC EMBL, BC004271; -; NOT_ANNOTATED_CDS.

DR MEROPS; M20.006; -;
DR GeneW; HGNC:20675; CNDP1.
DR InterPro; IPR001261; ARGE_dap.

DR InterPro; IPR002933; Peptidase_M20.

DR Pfam; PF01546; Peptidase_M20; 1. FALSE NEG.

DR PROSITE; PS00758; ARGE_DAP_CPG2_1; FALSE NEG.

DR PROSITE; PS00759; ARGE_DAP_CPG2_2; FALSE NEG.

KW Carboxypeptidase; Hydrolase; Metalloprotease; Signal.

FT SIGNAL 1 27 Potential.

FT CHAIN 28 508 Glutamate carboxypeptidase-like protein

FT CONFLICT 238 238 L -> P (in Ref. 2).

FT CONFLICT 273 273 L -> P (in Ref. 2).

FT SEQUENCE 508 AA; 56779 MW; 0FDEA8991FDB495D CRC64;

Query Match 98.6%; Score 2585.5; DB 1; Length 508;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 504; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

Qy	1	MDPKLGKMAASLAV-LTLLERGMFSSPPALLLEKVPQYIDLHODEFYQTLKEWVAI	59
Db	1	MDPKLGKMAASLAVLILLERGMFSSPPALLLEKVPQYIDLHODEFYQTLKEWVAI	60
Qy	60	ESDSVQVPRPROSLFRMAVAADTLQRLGARVASVDMGPOQLPDGQSLPIPVYLAELG	119
Db	61	ESDSVQVPRPROSLFRMAVAADTLQRLGARVASVDMGPOQLPDGQSLPIPVYLAELG	120
Qy	120	SDPTKGTVCFGHLDVQPADRGDGLMDPYLTVDGLYRGATDNKGPIAWMNAVA	179
Db	121	SDPTKGTVCFGHLDVQPADRGDGLMDPYLTVDGLYRGATDNKGPIAWMNAVA	180
Qy	180	FRALQDLPVNIKFLIEGMEKAGVLALEVEKEKDRFSSGVYIVISDNLMISOKKPAI	239
Db	181	FRALQDLPVNIKFLIEGMEKAGVLALEVEKEKDRFSSGVYIVISDNLMISOKKPAI	240
Qy	240	TYGTRGNSYFVWEVKCRDQDFHSGTFGGILHEPMADIVALLGSLVDSGGHILVPGIYDEV	299
Db	241	TYGTRGNSYFVWEVKCRDQDFHSGTFGGILHEPMADIVALLGSLVDSGGHILVPGIYDEV	300
Qy	300	VPLTEERINTYKALHLDLEERYNRSRYEKPLFDKKEETLMLTWYPSLSTIGIGAFDEP	359
Db	301	VPLTEERINTYKALHLDLEERYNRSRYEKPLFDKKEETLMLTWYPSLSTIGIGAFDEP	360

Qy	360	GTXTVIGRVIGKPSIRIVPHNVSAVEKQVTRHLEDVFSKRNSSNKNVSMITGLHPMI	419
Db	361	GTXTVIGRVIGKPSIRIVPHNVSAVEKQVTRHLEDVFSKRNSSNKNVSMITGLHPMI	420
Qy	420	ANIDDTQYLAARAIKRVFEGTEPDIMRDGSTIPIAKMFQEIYHKSIVLLIPLGAVDDGHS	479
Db	421	ANIDDTQYLAARAIKRVFEGTEPDIMRDGSTIPIAKMFQEIYHKSIVLLIPLGAVDDGHS	480
Qy	480	QNEKINRWNYIEGTYLFAAFPLEMAQLH	507
Db	481	QNEKINRWNYIEGTYLFAAFPLEMAQLH	508

Search completed: February 17, 2005, 16:38:39
 Job time : 0.001 secs

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OM protein - protein search, using sw model

Run on: February 17, 2005, 16:40:08 ; Search time 0.001 Seconds
(without alignments)

86.697 Million cell updates/sec

Title: us-10-036-342-57

Perfect score: 2623
Sequence: 1 MDPKLGRAASLAVLLILL.....NYIEGKLPAAFLMAQLH 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 171 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : q6znd4.uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	766	29.2	171	1 Q6ZND4	Hypothetical prote

ALIGNMENTS

RESULT 1

ID Q6ZND4 PRELIMINARY; PRT; 171 AA.
AC Q6ZND4
DT 05-JUL-2004 (TREMBLrel. 27, Created)
DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)
DE Hypothetical protein FLJ16195.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Thalamus;
RA Ota T., Nakagawa S., Senoh A., Mizuguchi H., Inagaki H., Sugiyama T.,
RA Irie R., Otsuki T., Sato H., Wakamatsu A., Ishii S., Yamamoto J.,
RA Isono Y., Kawai-Hio Y., Saito K., Nishikawa T., Kimura K.,
RA Yamashita H., Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Kanda K.,
RA Wagatsuma M., Murakawa K., Kanehori K., Takahashi-Fujii A., Oshima A.,
RA Sugiyama A., Kawakami B., Suzuki Y., Sugano S., Nagahari K.,
RA Masuno Y., Nagai K., Isegai T.,
RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK131263; BADI8441.1;
SQ SEQUENCE 171 AA; 18880 MW; 20816D6DF214688 CRC64;

Query Match 29.2%; Score 766; DB 1; Length 171;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	339	MTLMRPSTLSIHGIGAFDEPGTKTVIPGRVIGKFSIRLVPMNVSAVEKQYTRHLEDVF	398
DB	1	MTLMRPSTLSIHGIGAFDEPGTKTVIPGRVIGKFSIRLVPMNVSAVEKQYTRHLEDVF	60
QY	399	SKRNSNNQWVSMITGLHPWIANIDDTQYLAAKRAIRTVFGTEPDMIRDSITPIAKMFQ	458
DB	61	SKRNSNNQWVSMITGLHPWIANIDDTQYLAAKRAIRTVFGTEPDMIRDSITPIAKMFQ	120
QY	459	EIVHKSIVLIPGAVDDGSHSQNEKINR	486
DB	121	EIVHKSIVLIPGAVDDGSHSQNEKINR	148

Search completed: February 17, 2005, 16:40:09
Job time : 0.001 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 17, 2005, 17:06:12 ; Search time 0.001 Seconds
(without alignments)
86.697 Million cell updates/sec

Title: us-10-036-342-57
Perfect score: 2623
Sequence: 1 MDPLGRMAASLAVLLLL.....NYISGTKLFAAFLEMAQLH 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 171 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : bad18441.geneptc:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	766	29.2	171	1	BAD18441

ALIGNMENTS

RESULT 1
BAD18441

Query Match 29.2% ; Score 766; DB 1; Length 171;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	339	MHLNRYPSLSIHGIEGAFDEPGTKVIFGRVIGKFSIRLVPHMNSAVEKQVTRHLEDF	398
DB	1	MHLNRYPSLSIHGIEGAFDEPGTKVIFGRVIGKFSIRLVPHMNSAVEKQVTRHLEDF	60
QY	399	SKRNSNMMVVSMITGLHPWIANIDTQYLAAKRAIRTVFGTEPDMIRDSSTIPAKMFQ	458
DB	61	SKRNSNMMVVSMITGLHPWIANIDTQYLAAKRAIRTVFGTEPDMIRDSSTIPAKMFQ	120
QY	459	EIVHKSIVLIPLGAVDDGSHSONEKINR	486
DB	121	EIVHKSIVLIPLGAVDDGSHSONEKINR	148

Search completed: February 17, 2005, 17:06:12
Job time : 0.001 secs